



OS Macadamia integrifolia.  
FH Key Location/Qualifiers  
FT Peptide 1..28  
FT /note= "signal peptide"  
FT Protein 29..666  
FT /note= "mature protein"  
PN W09827805-A1.  
PD 02-JUL-1998.  
PF 22-DEC-1997; AU0874.  
PR 20-DEC-1996; AU-004275.  
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.  
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP.  
DR WPI: 98-377279/32.  
N-PSDB: V42316.  
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
PT useful for controlling microbial infestations of plants or mammals  
PS Claim 1; Page 43-45; 96pp; English.  
CC The sequence is that of an antimicrobial protein which can  
CC be used to control microbial infestations in plants and mammalian  
CC animals.  
SQ Sequence 625 AA;

Query Match 93.9%; Score 462; DB 1; Length 625;  
Best Local Similarity 93.7%; Pred. No. 8.17e-37;  
Matches 59; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

DB 145 KRDPQREYEDCRRCCEQEPRIQYQCRRCCEQQRHGRGDLNPNRGSGRYEEGEE 204  
|||  
QY 166 KRDPQREYEDCRRCCEQEPRIQYQCRRCCEQQRHGRGDLNPNRGSGRYEEGEE 245

DB 205 KOS 207  
|||  
QY 246 KOS 248

RESULT 3  
ID W62828 standard; Protein: 666 AA.

AC W62828;  
DT 27-OCT-1998 (first entry)  
DE Macadamia integrifolia antimicrobial protein.  
KW antimicrobial protein; infestation; control.

OS Macadamia integrifolia.  
FH Key Location/Qualifiers

FT Peptide 1..28  
FT /note= "signal peptide"  
FT Protein 29..666  
FT /note= "mature protein"

PN W09827805-A1.  
PD 02-JUL-1998.  
PF 22-DEC-1997; AU0874.  
PR 20-DEC-1996; AU-004275.

PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.  
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP.  
DR WPI: 98-377279/32.  
N-PSDB: V42310.

PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
PT useful for controlling microbial infestations of plants or mammals  
PS Claim 1; Page 34-36; 96pp; English.  
CC The sequence is that of an antimicrobial protein which can  
CC be used to control microbial infestations in plants and mammalian  
CC animals.

SQ Sequence 666 AA;

Query Match 91.3%; Score 449; DB 1; Length 666;  
Best Local Similarity 92.1%; Pred. No. 1.79e-35;  
Matches 58; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

DB 186 KRDPQREYEDCRRCCEQEPRIQYQCRRCCEQQRHGRGDLNPNRGSGRYEEGEE 245  
|||  
QY 186 KRDPQREYEDCRRCCEQEPRIQYQCRRCCEQQRHGRGDLNPNRGSGRYEEGEE 245

DB 246 KOS 248  
|||

QY 246 KOS 248

RESULT 4  
ID W62831 standard; Protein: 525 AA.

AC W62831;  
DT 27-OCT-1998 (first entry)  
DE Theobroma cacao antimicrobial protein.  
KW antimicrobial protein; infestation; control.

OS Theobroma cacao.  
PN W09827805-A1.  
PD 02-JUL-1998.  
PF 22-DEC-1997; AU0874.

PR 20-DEC-1996; AU-004275.  
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.  
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP.  
DR WPI: 98-377279/32.

PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
PT useful for controlling microbial infestations of plants or mammals  
PS Claim 1; Page 47-49; 96pp; English.  
CC The sequence is that of an antimicrobial protein which can  
CC be used to control microbial infestations in plants and mammalian  
CC animals.

SQ Sequence 525 AA;

Query Match 36.2%; Score 178; DB 1; Length 525;  
Best Local Similarity 37.7%; Pred. No. 2.98e-08;  
Matches 23; Conservative 20; Mismatches 15; Indels 3; Gaps 3;

DB 82 QRYQCCGRCCEQ 141  
|||  
QY 191 QREYEDCRRC-EOQE-PROQYQCRRCCEQQRHGRG-DLNPORGSGRYEEGEEQ 247

DB 142 N 142  
QY 248 S 248

RESULT 5  
ID R20181 standard; Protein: 666 AA.

AC R20181;  
DT 16-APR-1992 (first entry)  
DE Sequence encoded by 67 kD T. cacao protein cDNA.

KW Cocoa; flavour; vicillin; seed storage protein.  
OS Theobroma cacao.  
PN W09119801-A.  
PD 26-DEC-1991.

PF 07-JUN-1991; G00914.  
PR 11-JUN-1990; GB-013016.  
PA (MNSC) MARS UK LTD.  
PI Spencer ME, Hodge R, Deakin EA, Ashton S;  
DR WPI: 92-024418/03.

DR N-PSDB: 020377.  
PT Recombinant cocoa proteins - are responsible for flavour in cocoa  
PT beans and produced in large quantities using yeast and bacterial  
PT expression vectors

PS Claim 4; Fig 2; 59pp; English.  
CC The inventors claim a 67 kD and 31 kD T. cacao protein, and  
CC fragments, and encoding DNAs. The 47 kD and 31 kD proteins are  
CC derived from the 67 kD precursor. T. cacao protein cDNA was

CC detected in a cDNA library prepared from immature cocoa beans RNA  
CC using a probe based on the AA sequence of a CNBR peptide common to  
CC the 47 kD and 31 kD polypeptides. Homology searches revealed close  
CC homologues between the 67 kD polypeptide and the vicillins, which are  
CC seed storage proteins.

SQ Sequence 566 AA;

Query Match 36.2%; Score 178; DB 1; Length 566;  
Best Local Similarity 37.7%; Pred. No. 2.98e-08;  
Matches 23; Conservative 20; Mismatches 15; Indels 3; Gaps 3;

DB 82 QRYQCCGRCCEQ 141  
|||  
QY 191 QREYEDCRRC-EOQE-PROQYQCRRCCEQQRHGRG-DLNPORGSGRYEEGEEQ 247







